

FARFISA

Original

Transivox

SCHEMATIC DIAGRAMS

BLOCK DIAGRAM

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graph LR
    AFX[A/FX] --> PF1[PERC. FILTERS]
    PF1 --> PM1[PERC. MODULATOR]
    PM1 --> P1[PREAMP]
    P1 --> OUT[OUT]
    
    G[GENERATOR] --> GT[GATES TREBLE]
    V[VIBRATO] --> GT
    GT --> B[BUFFERS]
    B --> OF[ORCHESTRA FILTERS]
    OF --> PM1
    
    TK[TREBLE KEYSWITCHES] --> PF2[PERC. DRIVER]
    PF2 --> PM1
    
    F[FLUTE FILTERS] --> P2[PREAMP]
    P2 --> OUT
    
    BCG[BASS & CHORD GATES] --> P3[PREAMP & VOLUME]
    P3 --> BCF[BASS & CHORD FILTER]
    BCF --> P4[PREAMP]
    P4 --> OUT
    
    BCK[BASS & CHORD KEYSWITCHES] --> BD[BRUSH DRIVER]
    BD --> BFF[BRUSH FILTER & VOLUME]
    BFF --> BM[BRUSH MODULATOR]
    BM --> P4
    
    M[MIKE] --> P5[PREAMP & VOLUME]
    P5 --> OUT
    
    SP[SWELL PEDAL] --> OUT
    
    OUT --> AO1[AUX OUT]
    OUT --> AO2[AUX OUT]
    OUT --> AO3[AUX OUT]
  
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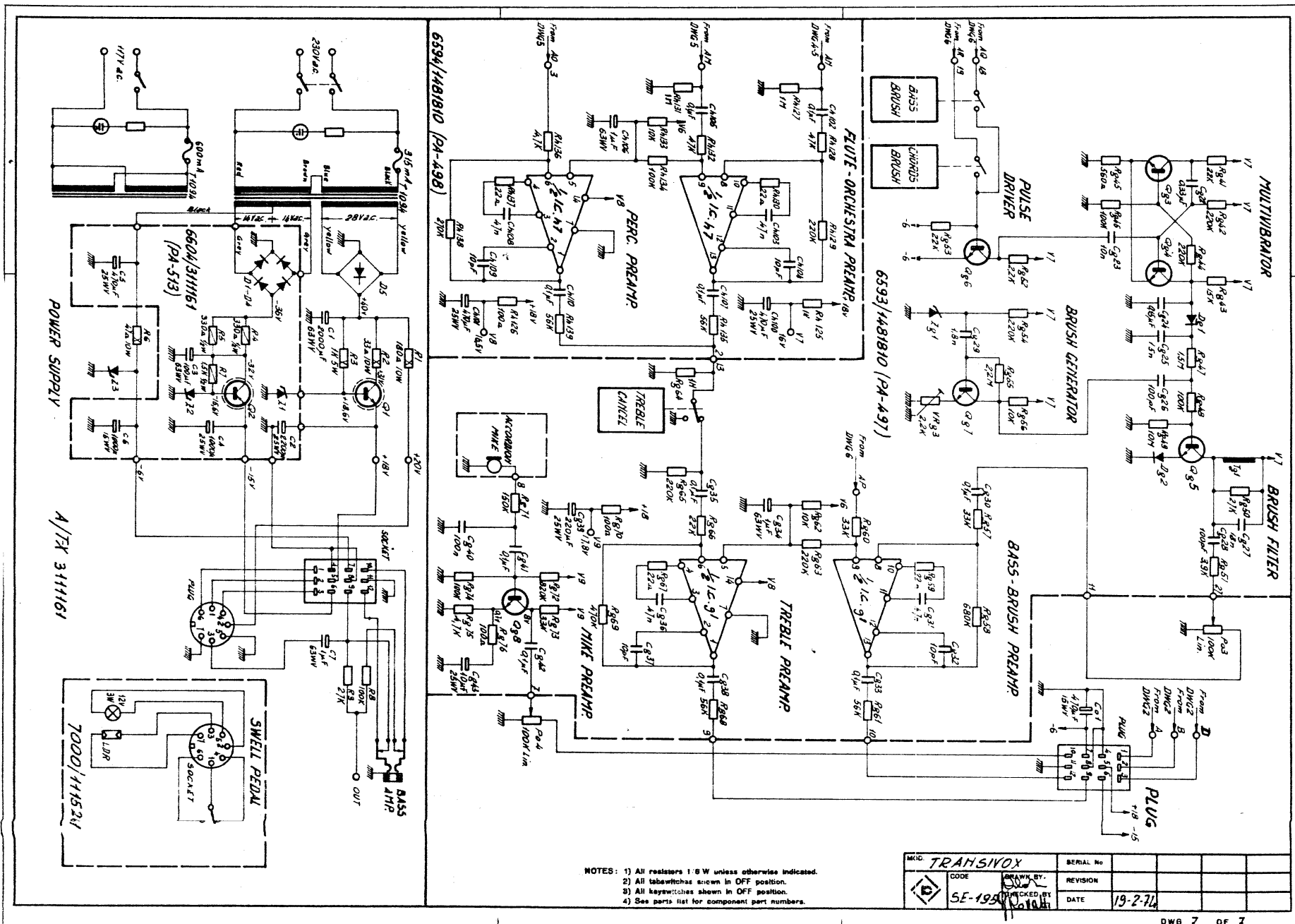
MOD. TRANS/VOX		SERIAL No			
	CODE	REVISION			
	SE-195	DATE	19-27		

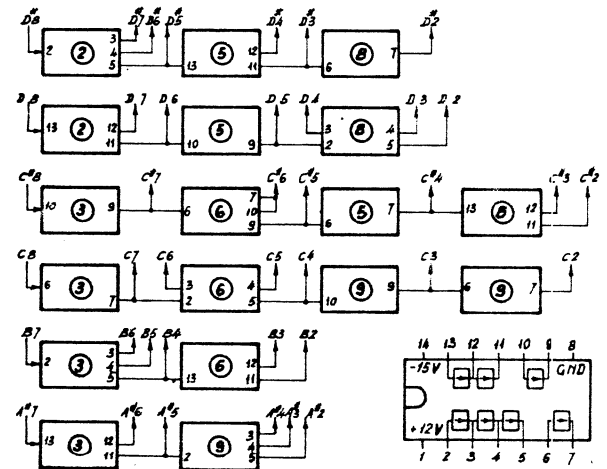
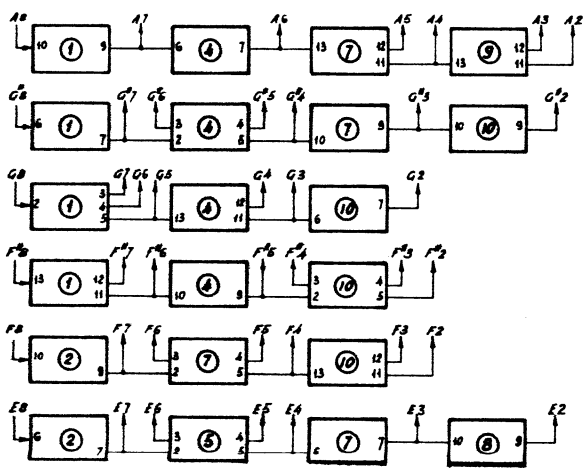
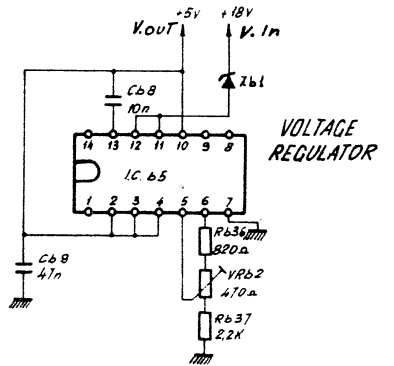
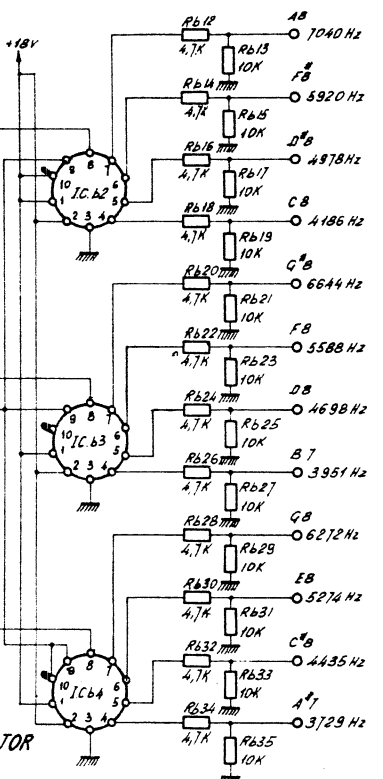
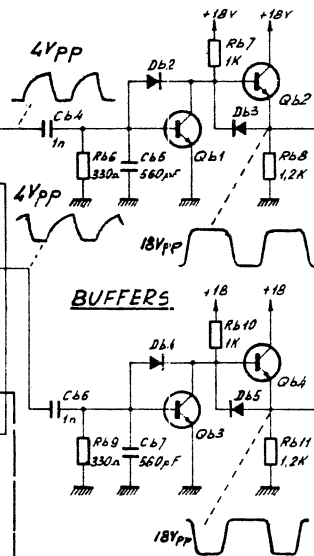
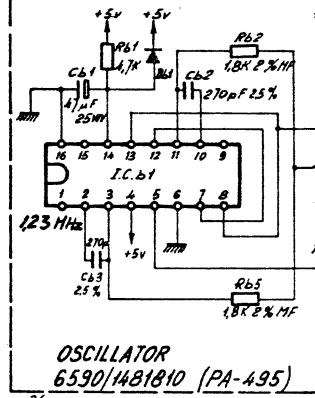
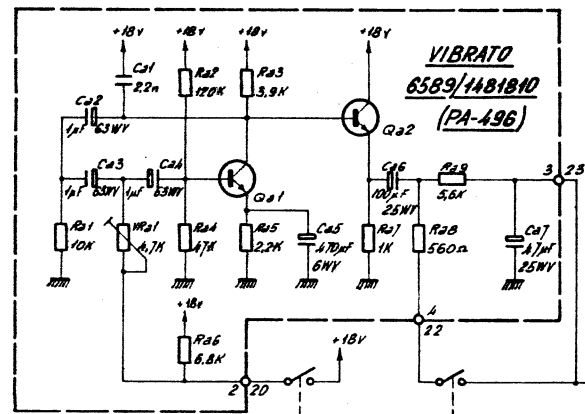
Y. A. S. S. A. 1973



Y. A. S. S. A. 1973

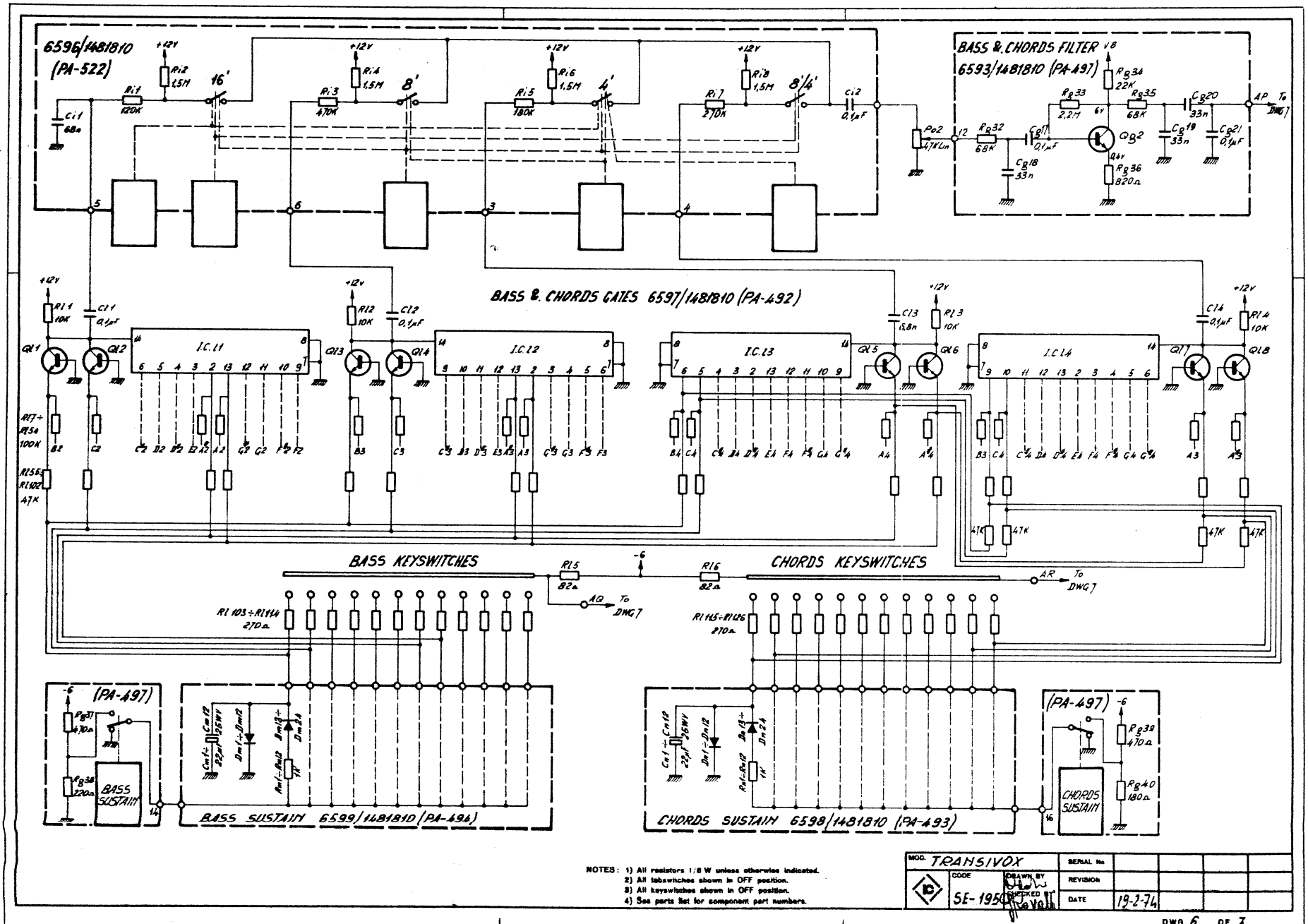
Y. A. S. S. A. 1973





NOTES: 1) All resistors 1/8 W unless otherwise indicated.
 2) All transistors shown in OFF position.
 3) All capacitors shown in OFF position.
 4) See parts list for component part numbers.

MOD.	TRANSIVOX	SERIAL No.	
CODE	SE-1950	REVISION	
DATE	19-7-74		



Schem.Ref.	Circuit	Type	Part Code
<u>POWER SUPPLY (DWG 7/SE 195)</u>			<u>3111161</u>
Q 1	Series Stabilizer.....	Whestinghouse 156-043... Solitron H 9340.....	W/1800
Z 3	Zener Diode..... (6,8V - 3W)	IR - 3Z 6,8 T5.....	B/1510
D 5	Rectifier Bridge.....	ITT - B 40 C 2200/3200.. SIEMENS B 40 C 2200/3200	B/1201
<u>PA 513 VOLTAGE REGULATOR BOARD (DWG 7/SE 195)</u>			<u>6604/3111161</u>
Q 2	Series Stabilizer.....	BC 287.....	W/1702
Z 2	Voltage Reference-Diode Zener (15V - 400 mW)	ITT ZPD 15..... IR 1N 965 B.....	B/1319
Z 1	Voltage Reference-Diode Zener (18V - 1W)	ITT ZY 18..... IR 1N 4716 A	B/1421
D1 ÷ D4	Rectifier Diodes (Bridge)..	IR 10D1 - 10D6..... ITT 1N 4002 - 1N 4005...	B/1100 B/1101 - B/1102
<u>PA 495 OSCILLATOR-TONE GENERATOR (DWG 2/SE 195)</u>			<u>6590/1481810</u>
I.C. b1	TTL - Oscillator.....	SN 29730.....	W/1009
IC/b2÷IC/b4	Frequencies Sinthetyzer....	SAH - 190.....	W/1104
I.C. b5	D.I.L. Stabilize.....	SN 72723 N.....	W/1209
Qb1 ÷ Qb4	Buffer Transistors.....	BC 209-B..... BC 239 - B.....	W/1407
Z b1	Zener Diode..... (6,2V-1W)	IR 1N 4735 A..... ITT ZPY 6,2.....	B/1410
Db1÷Db5	Diodes.....	SGS IX9809..... BA 130..... ITT 1N 4048.....	B/1000 B/1001 - B/1003

TRANSIVOX

TRANSISTORS (Q) & DIODES (D) LIST

2

Schem.Ref.	Circuit	Type	Part Code
<u>PA 496</u>	<u>VIBRATO (DWG 2/SE 195)</u>		<u>6589/1481810</u>
Q a 1	Vibrato Oscillator.....	BC 209-B.....	W/1407
Q a 2	Vibrato Buffer.....	BC 239-B.....	
<u>PA 422</u>	<u>TREBLE GATES (DWG 2-3/SE 195)</u>		<u>6586/1481810</u>
IC1÷IC10	Integrated Dividers.....	G.I.E. - MISTRAL.....	W/1100 - W/1101
Qe1-Qe5	Transistor Gate.....	BC 209-B..... BC 239-B.....	W/1407
<u>PA 411</u>	<u>SHAPPER GATE (DWG 3/SE 195)</u>		<u>6587/1481810</u>
IC c1x20	Gate with 10 emitter.....	TBA 470-ITT.....	W/1202
<u>PA 499</u>	<u>TREBLE GATE (DWG 3/SE 195)</u>		<u>6585/1481810</u>
Df1÷Df88	Diodes.....	SGS IX9809..... BA 130.....	B/1000 - B/1001 B/1002 - B/1003
<u>PA 563</u>	<u>TREBLE KEYSWITCHES (DWG 4/SE 195)</u>		<u>6647/1481810</u>
Dd1÷Dd19	Diodes.....	SGS IX9809..... BA 130.....	B/1000 - B/1001 B/1002 - B/1003
<u>PA 498</u>	<u>FLUTE FILTERS (DWG 4-5-7/SE 195)</u>		<u>6594/1481810</u>
IC1-IC2 1/2 IC h3	Buffer Integrated circuits	SN 76131.....	W/1201
1/2 IC h3 IC4÷IC6	Flute Filter.....		
1/2 IC h7	Flute Orchestra preamplifier		
1/2 IC h7	Percussion Preamplifier...		

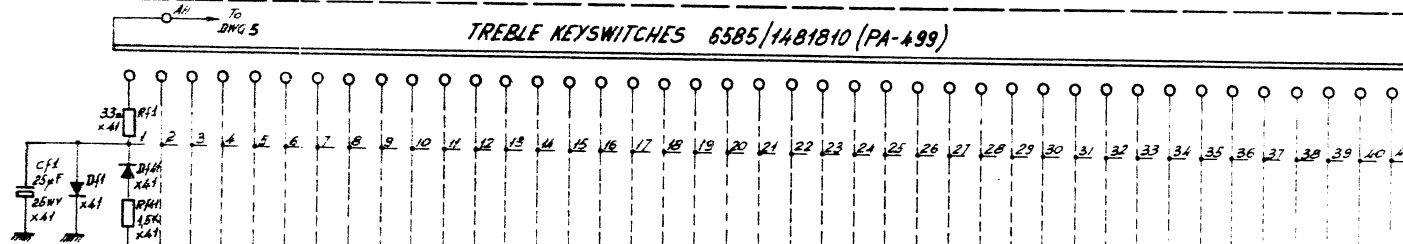
TRANSIVOX

TRANSISTORS (Q) & DIODES (D) LIST

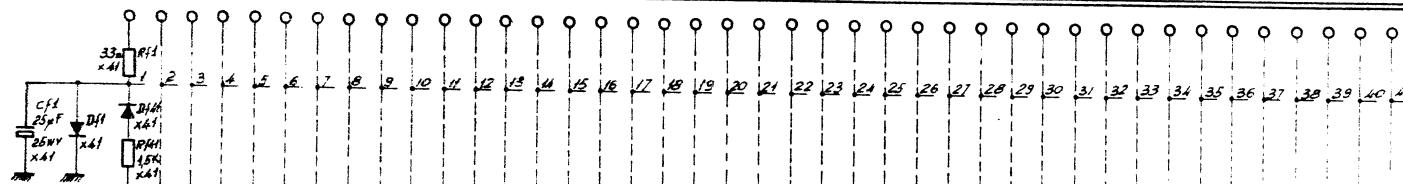
3

Schem.Ref.	Circuit	Type	Part Code
Q h1	Stabilizer Transistor.....	BC 286.....	W/1601
Q h2	Pulse Driver.....	BC 209-B.....	W/1407
Qh3-Qh4	Multivibrator Transistors...	BC 239-B.....	
Q h5	Keyer Transistor.....	SGS IX 9809.....	B/1002
D h1	Diode.....	ITT - 1N 4148.....	B/1418
Z h1	Zener Diode..... (13V-1W)	ITT ZY 13..... IR 1N 4743-A.....	B/1418
PA 497	ORCHESTRA FILTERS (DWG 5-6-7/SE 195)		6593/1481810
$\frac{1}{2}$ IC g1	Bass Brush preamplifier.....	SN 76131.....	W/1201
$\frac{1}{2}$ IC g1	Treble preamplifier.....		
Q g6	Pulse Driver.....	BC 107 A-B.....	W/1403
Q g1	Trumpet filter.....		
Q g2	Bass Chord preamplifier.....		
Qg3-Qg4	Multivibrator Transistors...	BC 209-B.....	W/1407
Q g5	Brush Filter.....	BC 239-B.....	
Q g7	Brush preamplifier.....		
Q g8	Mike preamplifier.....		
Z g1	Brush Generator - Zener Diode	SGS IX 9824.....	B/1600
D g1-D g2	Diodes.....	SGS IX 9809..... BA-130.....	B/1000 - B/100
PA 492	BASS CHORDS GATE (DWG 6/SE 195)		6597/1481810
IC11-IC14	Gate with 10 emitter.....	ITT-TBA 470.....	W/1202
Q11-Q18	Gate Transistors.....	BC 209-B..... BC 239-B.....	W/1407
PA 494	BASS SUSTAIN (DWG 6/SE 195)		6599/1481810
Dm1-Dm24	Diodes.....	SGS IX 9809..... BA-130.....	B/1000 - B/100
PA 493	CHORDS SUSTAIN (DWG 6/SE 195)		6598/1481810
Dn1-Dn24	Diodes.....	SGS IX 9809..... BA-130.....	B/1000 - B/100

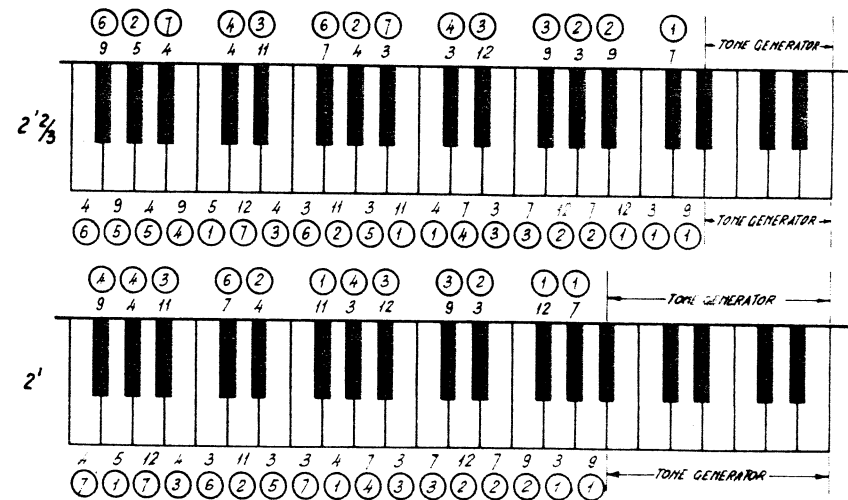
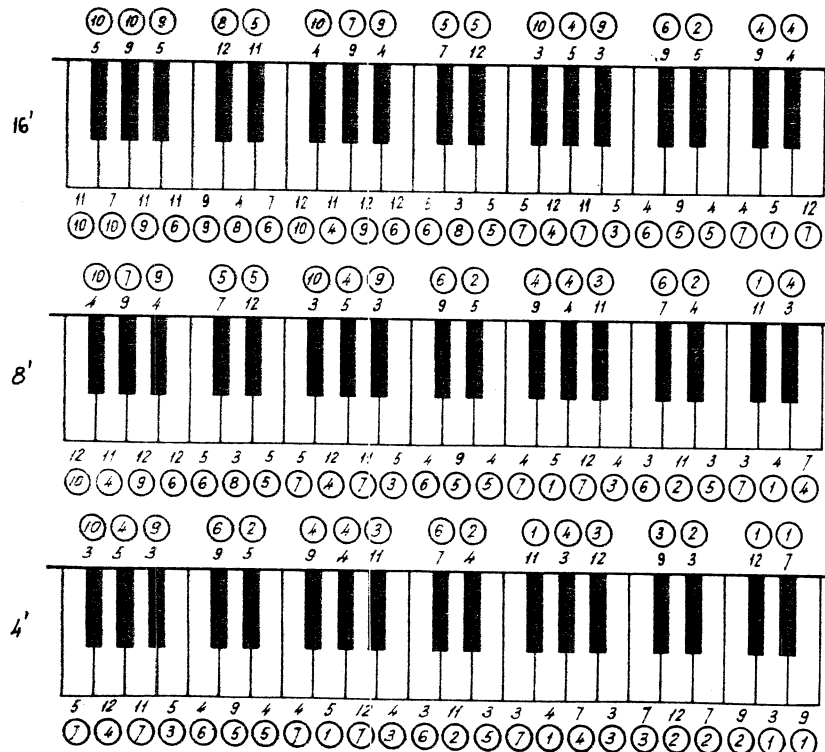
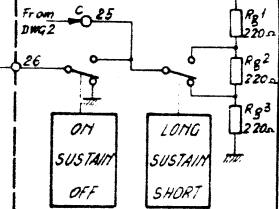
TREBLE GATES 6586/1481810 (PA-422)



TREBLE KEYSWITCHES 6585/1481810 (PA-499)



6593/1481810 (PA-497) -6v



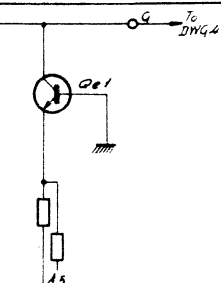
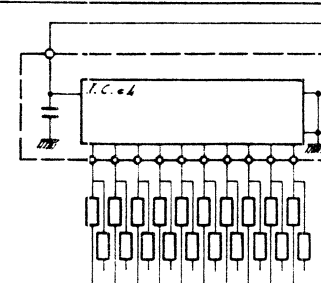
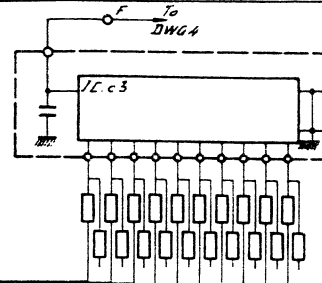
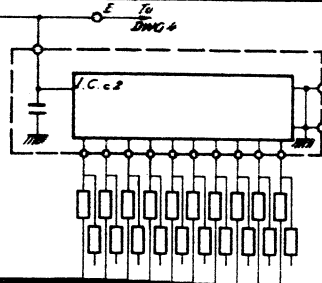
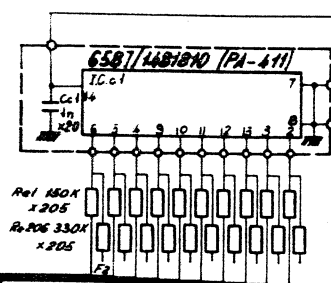
NOTE:

The tone generator of the keyboard notes are indicated with two numbers. The circled number that appears also on the printed circuit board PA-422 indicates the integrated circuit. The second number indicates the integrated circuit pin.

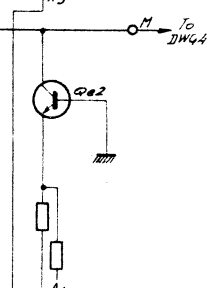
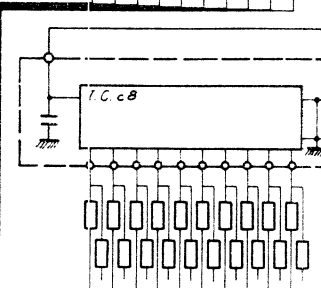
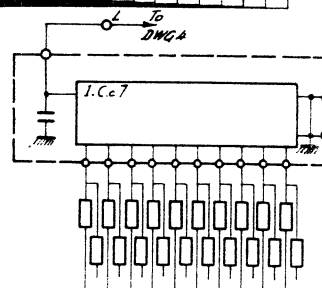
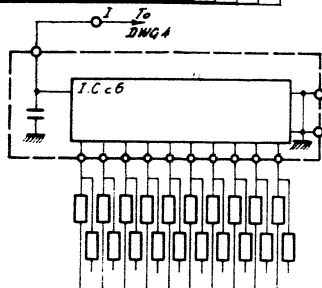
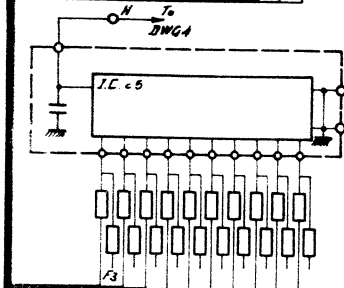
- NOTES: 1) All resistors 1/8 W unless otherwise indicated.
2) All tabewitches shown in OFF position.
3) All keyswitches shown in OFF position.
4) See parts list for component part numbers.

MOD.	TRANSIVOX	SERIAL No.	REVISION	DATE
SL-195	195	195	195	19-2-74

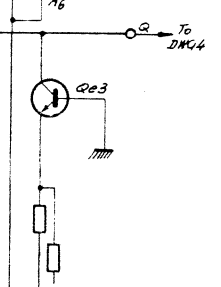
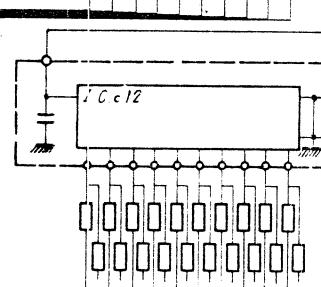
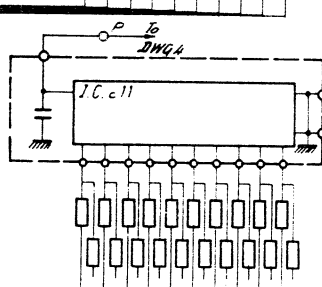
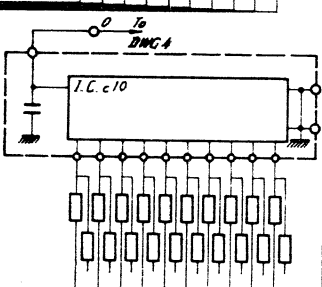
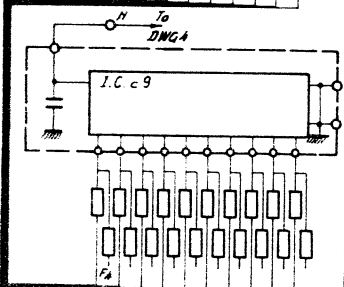
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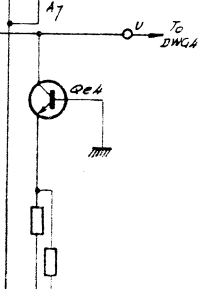
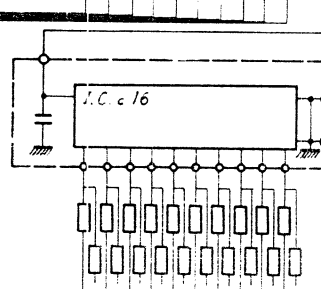
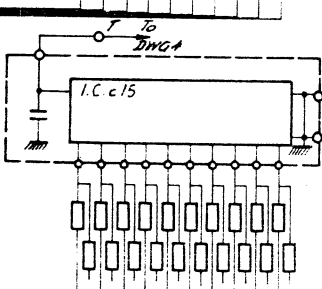
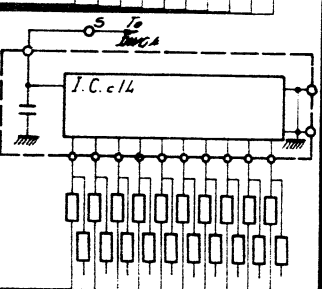
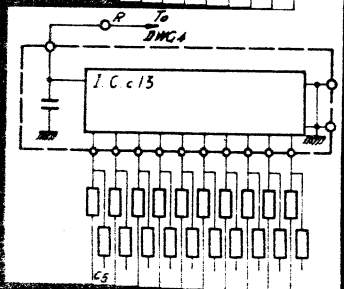
8'



L'



2' 2/3



2'

